

Appl. No. 10/763,118
Amdt. Dated May 11, 2005
Reply to Notice of April 11, 2005

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1. (currently amended) A golf ball comprising:

~~a core comprising at least one high cis content polybutadiene; zinc oxide; zinc stearate; zinc diacrylate; an organic peroxide; and at least one filler material; and,~~

a cover layer comprising a single ionomer resin having an acid content that is at least 95% neutralized, a flex modulus of at least 30 kpsi and a Shore D hardness no greater than 55;

~~wherein the golf ball has a PGA compression of about 85, a weight of between about 45.2 to 46.0 g, a coefficient of restitution greater than about 0.700, and a Shore D hardness no greater than about 55 and exhibits a spin rate of at least 7500 rpm when struck with an iron.~~

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Claim 2. (original) A golf ball according to claim 1,
wherein the ionomer resin comprises:

- a) an alpha olefin;
- b) an ethylenically unsaturated carboxylic acid;
- c) a metal cation in an amount sufficient to
neutralize about 100% of the carboxylic acid;
- d) at least one softening monomer, selected from alkyl
acrylate, and alkyl methacrylate; and
- e) a metal stearate.

Claim 3. (original) A golf ball according to claim 2,
wherein the ethylenically unsaturated carboxylic acid is an
acrylic or methacrylic acid in an amount no more than about
10% by weight.

Claim 4. (original) A golf ball according to claim 2
wherein the metal cation is selected from the group
consisting of lithium, sodium, potassium, magnesium,
calcium, barium, or zinc, or a combination of such cations.

Claim 5. (original) A golf ball according to claim 2
wherein the metal cation is a magnesium cation.

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Claim 6. (currently amended) A golf ball according to claim 1 ~~wherein the~~ further comprising:

a metal stearate , wherein the metal stearate is a
magnesium stearate.

Claim 7. (currently amended) A golf ball according to claim 1 ~~wherein the~~ further comprising:

a filler material , wherein the filler material is
barium sulfate.

Claim 8. (original) A golf ball according to claim 1,
wherein the core has a diameter of about 1.54", a weight of
about 36 grams and a PGA compression of no more than about
90.

Claim 9. (original) A golf ball according to claim 1,
wherein the cover is no more than about 0.07" thick.

Claim 10. (original) A golf ball according to claim 1,
wherein the ball has an overall diameter of about 1.68" and
a weight of about 45.5 grams.

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Claim 11. (original) A golf ball according to claim 1 wherein the ionomer resin has a melt flow index of about 0.65 g/10 min.

Claim 12. (currently amended) A golf ball comprising:

a core having a PGA compression no greater than about 90 ~~, comprising at least one high cis content polybutadiene, zinc oxide, zinc stearate, zinc dyaerylate, an organic peroxide, and a filler material; and,~~

a cover comprising a blend of:

an ionomeric terpolymer comprising the reaction of an olefin, a acrylic acid, and an alkyl acrylate;

a metal ion donor sufficient to neutralize 100% of the acrylic acid present in the ionomeric terpolymer;
and,

a stearate.

~~i) a single ionomeric resin terpolymer comprising ethylene, an acrylic or methacrylic acid, an alkyl acrylate, the acrylic or methacrylic acid;~~

~~ii) one or more alkalai metal, transition metal or alkaline earth metal cation in amount sufficient to neutralized 100% of the acrylic or methacrylic acid;~~
and

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~~iii) at least one metal stearate,
wherein the golf ball has a PGA compression of about
85; a coefficient of restitution greater than about 0.700;
a Shore D hardness no greater than about 55; and a spin
rate of at least 2700 RPM when struck with an 10° loft
driver with a swing speed of about 90 mph.~~

Claim 13. (original) A golf ball according to claim
12 wherein the ball, when struck with a standard 9-iron,
has a spin rate of at least 7500 rpm.

Claim 14. (original) A golf ball according to claim 12
wherein the ball, when struck with a standard 5-iron, a
spin rate of at least 4600 rpm.

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Claim 15. (currently amended) A golf ball comprising:

a core having a PGA compression no greater than about 90, comprising at least one high cis content polybutadiene[[:]] , zinc oxide[[:]] , zinc stearate [[:]] , zinc dyacrylate [[:]] , an organic peroxide, and a filler material; and,

a cover comprising a blend of:

an ionomeric terpolymer comprising the reaction of an olefin, a acrylic acid, and an alkyl acrylate;

a metal ion donor sufficient to neutralize 100% of the acrylic acid present in the ionomeric terpolymer;
and,

a metal stearate.

~~i) an ionomeric resin terpolymer comprising ethylene, an acrylic or methacrylic acid, an alkyl acrylate, the acrylic or methacrylic acid;~~

~~ii) one or more alkalai metal, transition metal or alkaline earth metal cation in amount sufficient to neutralized 100% of the acrylic or methacrylic acid;~~
~~and~~

~~iii) at least one metal stearate, wherein the core and the cover materials are selected so that the golf ball has the following spin rate characteristics;~~

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~~i) a spin rate of at least 7500 rpm when
struck with a standard 9 iron
ii) a spin rate of at least 4600 rpm when
struck with a standard 5 iron, and
iii) a spin rate of at least 2700 rpm when
struck with a 10° loft driver with a swing speed
of about 90 mph.~~

Claim 16. (new) The golf ball according to claim 1 wherein the golf ball has a PGA compression of about 85, a weight of between about 45.2 to 46.0 g, a coefficient of restitution greater than about 0.700, and a Shore D hardness no greater than about 55 and exhibits a spin rate of at least 7500 rpm when struck with an iron.

Claim 17. (new) The golf ball according to claim 12 wherein the golf ball has a PGA compression of about 85, a coefficient of restitution greater than about 0.700, a Shore D hardness no greater than about 55, and a spin rate of at least 2700 RPM when struck with an 10° loft driver with a swing speed of about 90 mph.

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Claim 18. (new) The golf ball according to claim 15 wherein the core and the cover materials are selected so that the golf ball has the following spin rate characteristics of a spin rate of at least 7500 rpm when struck with a standard 9-iron.

Claim 19. (new) The golf ball according to claim 15 wherein the core and the cover materials are selected so that the golf ball has the following spin rate characteristics:

i) a spin rate of at least 7500 rpm when struck with a standard 9-iron; and,

ii) a spin rate of at least 4600 rpm when struck with a standard 5 iron.

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Claim 20. (new) The golf ball according to claim 15 wherein the core and the cover materials are selected so that the golf ball has the following spin rate characteristics:

- i) a spin rate of at least 7500 rpm when struck with a standard 9-iron
- ii) a spin rate of at least 4600 rpm when struck with a standard 5 iron; and
- iii) a spin rate of at least 2700 rpm when struck with a 10° loft driver with a swing speed of about 90 mph.